

ATTORNEY DOCKET NO. 678-1220 (P11028)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Seung-Hoon NAM

Serial No.: not yet assigned

Filed: concurrent herewith Date: December 2, 2003

For: APPARATUS AND METHOD FOR PERFORMING CHANNEL
ESTIMATION IN AN ORTHOGONAL FREQUENCY DIVISION
MULTIPLEXING (OFDM) SYSTEM USING MULTIPLE ANTENNAS

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT


Sir:

Pursuant to Applicant(s) duty of disclosure, the information listed on the attached form PTO-1449 is brought to the attention of the Examiner. A copy of the listed items is enclosed.

The citation of the listed items is not a representation that they constitute a complete or exhaustive listing of the relevant art or that the references are prior art. The items listed are submitted in good faith, but are not intended to a substitute for the Examiner's search. It is hoped, however, that in addition to apprising the Examiner of these particular items, they will assist in identifying fields of search and in making as full and complete a search as possible.

CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service on this date December 2, 2003, in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EL915744037US addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Douglas M. Owens III

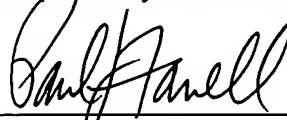
The filing of this information disclosure statement is not an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

- ☒ This information disclosure statement is being filed within three (3) months of the filing date of this application.
- ☐ This information disclosure statement is being filed within three (3) months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application.
- ☒ To the best of Applicant(s) knowledge, this information disclosure statement is being filed before the date of mailing of a first Office Action on the merits in connection with this case.
- ☐ Enclosed herewith is a certificate under 37 C.F.R. § 1.97(e)(1).
- ☐ Enclosed herewith is a petition under 37 C.F.R. § 1.97(d)(ii).
- ☐ Enclosed by check is the petition fee of \$130.00. 37 C.F.R. § 1.17(i)(1))
- ☐ Please charge the **\$130.00** petition fee to Deposit Account No. **04-1121**.
- ☐ Enclosed by check is the **\$180.00** fee required by 37 C.F.R. § 1.17(p).
- ☐ Please charge the **\$180.00** fee required by 37 C.F.R. § 1.17(p) to Deposit Account No. **04-1121**.

[X] Please charge any deficiency as well as any other fee(s) which may become due under 37 C.F.R. § 1.16 and/or 1.17 at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account 04-1121. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. 04-1121 therefor.
TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

Early and favorable consideration of the case is respectfully
requested.

Respectfully submitted,



Paul J. Farrell

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Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DOCKET NO. 678-1220 (P11028)	SERIAL NO. not yet assigned
	APPLICANTS Seung-Hoon NAM, et al.	
	FILING DATE concurrent herewith	GROUP ART UNIT not yet assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

		1.	Abbas Yongacoglu and Mohamed Siala, "Space-Time Codes For Fading Channels", 1999 IEEE, pp. 2495-2499
		2.	Vahid Tarokh, et al., "Space-Time Codes for High Data Rate Wireless Communication: Performance
			Criterion and Code Construction", IEEE Transactions on Information Theory, Vol. 44, No. 2, March 1998, pp. 744-765
		3.	Welly Firmanto, et al., "Space-Time TCM with Improved Performance on Fast Fading Channels",
			IEEE Communication Letters, Vol. 5, No. 4, April 2001, pp. 154-156

EXAMINER	DATE CONSIDERED
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.
 Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.